

In the figure,

Connect  $AB$

Then draw a line that intersects, (and parallel) to  $AB$

$\therefore DE \parallel AB$

Connect  $CH$  and  $CH$  is the height of  $\triangle ABC$

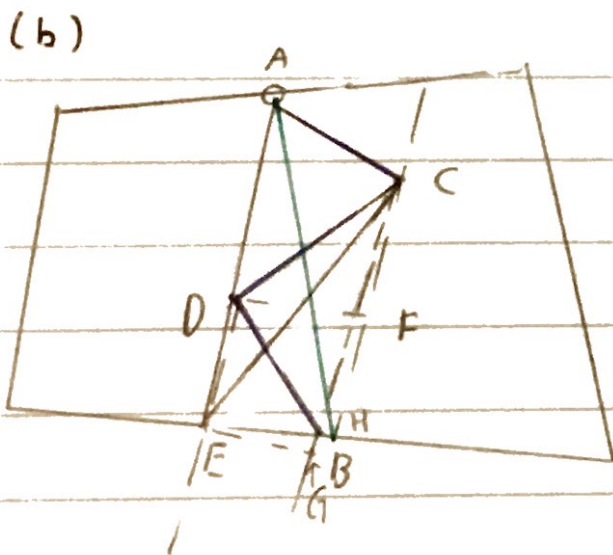
$CH = EP$  ( $DE \parallel AB$ )

$\therefore \triangle ABC$  and  $\triangle ABE$  share the same base and height.

$\therefore \text{Area of } \triangle ABC = \text{Area of } \triangle ABE$

$\therefore AE$  is the required line.

Thus both farmers can access the tap.



In the figure

Connect  $CB$

Then draw  $DE$  in which  $DE \parallel CB$

Connect  $CF$  and  $CF$  is the height of  $\triangle CDB$

$CF = EG$  ( $DE \parallel CB$ )

$\therefore \triangle CDB$  and  $\triangle CBE$  share the same base and height

$\therefore \text{Area of } \triangle CDB = \text{Area of } \triangle CBE$

Now the line becomes the same condition in part (a)

Repeat the method used in part (a) (It's recurring)

$\therefore AH$  is the required line

Thus both farmers can access the tap